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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Application Number	10/707,744
Filing Date	January 8, 2004
First Named Inventor	Sugar et al.
Art Unit	2685
Examiner Name	Edward F. Urban
Attorney Docket Number	COG-2-0977.02.US

Total Number of Pages in This Submission

ENCLOSURES (Check all that apply)

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Form PTO-1449 w/ copies of eight (8) references |
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Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Jeffrey M. Glabicki	Reg. No. 42,584
Signature		
Date	February 2, 2006	

CERTIFICATE OF TRANSMISSION/MAILING

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PATENT

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Sugar et al.

Application No.: 10/707,744

Confirmation No.: 1743

Filed: January 8, 2004

For: MULTIPLE-INPUT MULTIPLE-
OUTPUT RADIO TRANSCEIVER

Group: 2685

Examiner: Edward F. Urban

Our File: COG-2-0977.02.US

Date: February 2, 2006

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Further to Applicants' Duty of Disclosure pursuant to 37 C.F.R. §1.56, Applicants wish to bring to the Examiner's attention the material cited on the enclosed PTO-1449 form. Newly cited documents are indicated by an asterisk (*). Copies of the cited documents are enclosed.

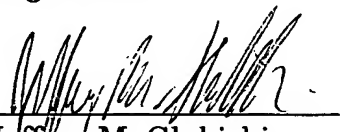
Pursuant to 37 C.F.R. §1.98(a)(2)(ii), copies of the cited U.S. publications and/or patent documents have not been included.

Applicant: Sugar et al.
Application No.: 10/707,744

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the PTO-1449 form indicating his consideration of the cited materials.

Respectfully submitted,

Sugar et al.

By 
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Registration No. 42,854
(215) 568-6400

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Philadelphia, PA 19103

JMG/ks
Enclosures (9)



FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.
COG-2-0977.02.USSERIAL NO.
10/707,744APPLICANT
Sugar et al.FILING DATE
January 8, 2004GROUP
2685

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,150,344	04/1979	Fenk			
		4,263,676	04/1981	Liebel			
		4,310,809	01/1982	Buck et al.			
		4,580,289	04/1986	Enderby			
		4,696,055	09/1987	Marshall			
		4,905,306	02/1990	Anderson			
		5,150,085	09/1992	Hales			
		5,220,688	06/1993	Tao			
		5,548,825	08/1996	Maemura et al.			
		5,579,341	11/1996	Smith et al.			
		5,606,736	02/1997	Hasler et al.			
		5,715,529	02/1998	Kianush et al.			
		5,752,169	05/1998	Hareyama et al.			
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		6,125,266	09/2000	Matero et al.			
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		6,215,988	04/2001	Matero			
		6,239,645	05/2001	Tsukahara et al.			

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				ATTY. DOCKET NO. COG-2-0977.02.US		SERIAL NO. 10/707,744	
				APPLICANT Sugar et al.			
				FILING DATE January 8, 2004		GROUP 2685	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,252,548	06/2001	Jeon			
		6,259,895	07/2001	Yoshikawa et al.			
		6,282,413	08/2001	Baltus			
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		6,359,923	03/2002	Agee et al.			
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	*	6,778,612	08/2004	Lozano et al.			
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	*	2002/0111142	08/2002	Klimovitch			
		2002/0150173	10/2002	Buda			
		2002/0164963	11/2002	Tehrani et al.			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		2002/0165626	11/2002	Hammons, Jr. et al.			
		2002/0173337	12/2002	Hajimiri et al.			
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		2003/0076908	04/2003	Huang et al.			
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		2003/0223391	12/2003	Malaender et al.			
	*	2003/0224750	12/2003	Sampath			
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		2004/0252632	12/2004	Bourdoux et al.			
		2005/0009476	01/2005	Wu et al.			
		2005/0020298	01/2005	Masumoto et al.			
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		2005/0047384	03/2005	Wax et al.			
		2005/0123025	06/2005	Sorrells et al.			

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				APPLICANT Sugar et al.			
				FILING DATE January 8, 2004		GROUP 2685	

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		03/092997	11/2003	WO				
		0 823 790	02/1998	EP				
	*	1 207 645	05/2002	EP				
	*	1 387 501	02/2004	EP				
	*	1 569 362	08/2005	EP				
		H11-46113	02/1999	JP			X**	
		2000-188522	07/2000	JP			X**	
		2001-024569	01/2001	JP			X**	
		2001-285114	10/2001	JP			X**	
		2002-26462	01/2002	JP			X**	
		2003-244045	08/2003	JP			X**	
		2003-283359	10/2003	JP			X**	
	*	2003-060604	02/2003	JP			X**	
	*	2004-179822	06/2004	JP			X**	
	*	2004-336561	11/2004	JP				
	*	2003-0058265	07/2003	KR				X
	*	2005-0013011	02/2005	KR				X

** Abstract Only

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<p>FORM PTO-1449</p> <p>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use several sheets if necessary)</p>	<p>ATTY. DOCKET NO. COG-2-0977.02.US</p>	<p>SERIAL NO. 10/707,744</p>
	<p>APPLICANT Sugar et al.</p>	
	<p>FILING DATE January 8, 2004</p>	<p>GROUP 2685</p>
<p>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</p>		
		<p>"Fodus Delivers 802.11B/G and 802.11B/A/G WLAN Total Solutions", http://www.fodus.com/DOCS/2003-09-15%20Fodus%20Press%20Release.htm, September 15, 2003.</p>
		<p>"Parkervision Announces Successful Development of Most Integrated High Performance Wireless LAN Transceiver Chips Current Available", July 30, 2002.</p>
		<p>"Single Chip Bluetooth Radio Transceiver", STMicroelectronics, 2001, (2 pages).</p>
		<p>Behbahani et al., "An All CMOS, 2.4 GHz, Full Adaptive, Scalable, Frequency Hopped Tranceiver", University of California, Los Angeles, Integrated Circuits & Systems Laboratory, date unknown.</p>
		<p>Brodersen, "BWRC Status", Summer 2002 Retreat Presentations, Berkeley Wireless Research Center, June 3, 2002.</p>
		<p>Cabric et al., "RF Front-End for MCMA Systems", Summer 2002 Retreat Presentations, Berkeley Wireless Research Center, June 3, 2002.</p>
		<p>Cho et al., "Multi-Standard Monolithic CMOS RF Transceiver", University of California, Berkeley, January 8, 1996, (1-26).</p>
		<p>Clarke, "Chip Set Bridges 802.11a and .11b Wireless LANs", EETimes.com, http://www.eetimes.com/showArticle.jhtml?articleID=10809297, September 24, 2001.</p>
		<p>Copeland et al., "5GHz SiGe HBT Monolithic Radio Transceiver with Tunable Filtering", IEEE Trans. On Microwave Theory and Techniques, February 2000, Vol. 48, No. 2.</p>
		<p>Ellingson et al., "An 8-Element Dual-Frequency Array Receiver for Propagation Measurements Near 2.4 GHz", The Ohio State University ElectroScience Laboratory, July 2001.</p>
		<p>Gozali et al., "Virginia Tech Space-Time Advanced Radio (VT-STAR)", Proceedings, Radio and Wirless Conference (RAWCON), 2001.</p>
		<p>Lantz, "A 5GHz, SiGe, Monolithic WLAN Transceiver", PCC Workshop, 1999.</p>
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
		Long, "A Low Voltage 5.1-5.8 GHz Image-Reject Downconverter RF IC", IEEE Journal of Solid State Circuits, Vol. 35, No. 9, September 2000, pp. 1320-1328.	
		Macedo et al., "A 1.9-GHz Silicon Receiver with Monolithic Image Filtering", IEEE Journal of Solid-State Circuits, Vol. 33, No. 3, March 1998, pp., 378-386.	
		Madihian et al., "A 5 GHz-Band Multifunctional BiCMOS Transceiver Chip for GMSK Modulation Wireless Systems," IEEE Journal of Solid-State Circuits, Vol. 34, No. 1, January 1999.	
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		Rudell et al., "Second Generation Multi-Standard Monolithic CMOS RF Transceiver", University of California, Berkeley, June 16, 1996.	

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